

Claims

1. A commutator (16) for an electrical machine (10), which has a plurality of laminations (26) that have contact faces (27) and are separated from one another by slots (24), characterized in that in at least some of the laminations (26), at least one groove (30) is provided in the contact face (27), which groove extends essentially in the longitudinal direction of the respective lamination (26).
2. The commutator (16) as defined by claim 1, characterized in that the spacing (32) of the slots (24) and grooves (30) is uniform.
3. The commutator (16) as defined by claim 1 or 2, characterized in that the depth (34) of the grooves (30) amounts to only a portion of the thickness of the laminations (26), preferably 0.5 mm.
4. The commutator (16) as defined by one of the foregoing claims, characterized in that two grooves (30) are provided on each lamination (26).
5. The commutator (16) as defined by one of the foregoing claims, characterized in that the opposed edges (36) of adjacent laminations (26) and the edges (40) of the grooves (30) are provided with a chamfer (38).

6. The commutator (16) as defined by claim 5, characterized in that the chamfers (38) form an acute angle, preferably of 15° to 20° , with the contact face (27) of the respective lamination (26).
7. The commutator (16) as defined by one of the foregoing claims, characterized in that the laminations (26) are disposed on the circumference of the commutator (16), embodied as a drum commutator.
8. The commutator (16) as defined by one of the foregoing claims, characterized in that the grooves (30) are shorter than the slots (24).
9. An electrical machine (10) having a commutator (16) as defined by one of the foregoing claims.
10. A drive unit (12), in particular for a motor vehicle, such as a power window system, sliding groove drive, drive train actuator, and in particular clutch actuator or the like, having an electrical machine (10) as defined by claim 9.